

**2/9/1 0001037069**SciPat Acc No: CN1399876A *Drawing available***Tebufenozide pesticide composition**

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## Patent Publications

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**Abstract:**

The present invention relates to a pesticide compound, it at least contains one kind of specific insect growth regulator, biogenetic material, neristoxin and/or other pesticide and tebufenzoide whose structure formula is 1-(1,1-dimethyl ethyl)-1-(4-ethyl benzoyl)-3,5-dimethyl benzoyl hydrazine.

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### Detailed Description

Hydrazide insect pesticidal composition

The invention claims insect hydrazide with specific insect growing regulator biological source aibuhitensis toxin and / or other

Type insect killer is composed of the insecticidal and anti-mite composition.

Insect hydrazide is passing through absorption and the contact of the invention claims a skin of hormone stimulant. The analog insect charge michael

Meng of the laser element to control the process of inducing the life of the premature of skin caused by deform and affect insect propagation.

If it is with specific insect growing regulator biological source aibuhitensis toxin and / or other kind of pesticide made by combined

Object of them and the insect disinfestations effect is has surprisingly degree of adding them to the environment the compatibility is better at the same time it also

Can reduce drug resistance of pests and it can reduce the burden of farmer.

It is suitable for the composition of this invention is the specificity of insect growing regulator biological source aibuhitensis toxin and / or

The other kind of pesticide example as follows:

A specificity insect growing modulators pesticide

1 diflubenzuron chlorbenzuron

2 2'-benzoyl-1'-tert-butylbenzoylhydrazine

3 chlorfluazuron chlorfluazuron

4 insecticidal takashi triflumuron

5 volt insect takashi teflubenzuron

6 hexaflumuron hexatlumuron

7 diflubenzuron diflubenzuron

8 fluorine mite urea flucycloxuron

Ring 9 insect hydrazide chromafenozide

10 fluorine and urea flufenoxurom

11 oxygen and a hydrazide methoxyfenozide

Biological source insect killer

1 agritol bacillus thuringiensis

2 avermectin abamectin

3 methyl amidocyanogen avermectin benzoate emamectin benzoate

C aibuhitensis toxin pesticide

1 monosultap

2 dimehypo dimthypo

D the other kind of pesticide

1 chlorfenapyr chlorfenapyr

2 imidacloprid imidacloprid

3 high efficiency cypermethrin

4 efficient cyhalothrin iambda cyhalothrin

On the top surface of a b c and d group of given by the common name represents has the following iupac the name of compound:

A specificity insect growing regulator

1 wherein said benzoyl chloride 3 4- diphenyl urea;

2' benzoyl 1' special butyl benzoyl hydrazine;

1 3 5 - dichloro - 3 5 chloride trichloromethyl 2-pyridine oxy phenyl] 3 2 6-bi

Fluorine benzoyl urea;

1-2 - 2 - chlorine benzoyl 3 4- trifluorine methoxy phenyl ureido;

N 3 5 2 2 4- dichloro fluorine phenyl n is 2 6-bi fluorine benzoyl urea;

1 3 5 - dichloro - 1 2 polytetrafluoroethylene oxy phenyl] 3 2 6-bi fluorine phenyl

Aryl urea;

Chloride 1 4 - phenyl - 2 6 3 and 1-bi-fluoride benzoyl urea;

1- 4 - chlorine alpha alpha cyclopropyl ya benzyl an oxygen toluene base 3 - 2 6 -bi-fluoride

Benzoyl urea;

Use of 2' 5 methyl tert-butyl 2' 3 5 -dimethyl benzoyl colour 6 and a hydrazide;

1 4 - 2 - chlorine alpha alpha alpha tri-fluoride methyl phenoxy the fluorine phenyl - 2 3 2 6-bi

Fluorine benzoyl urea;

N n or tertiary butyl 3-methyl 2# a benzoyl 3 5 -dimethyl benzoyl hydrazine.

Biological source insect killer

Agriol;

Avermectin;

4 said methyl amino 4 said deoxidizing avermectin b

Benzoate.

C aibuhitensis toxin type insecticide

2 n n-dimethyl amino 1 sodium thiosulfate 3- thiosulfate propyl alkyl;

2 n n-dimethyl amino 1 3 -dual thio propane sulfonic acid sodium.

D the other kind of pesticide

4 bromine chlorine 1 2 4 phenyl ethoxyl methyl 5-trifluorobenzene methyl pyridine 3 nitrile;

1 6 chloride 3 4-pyridylmethyl - n nitryl imidazole alkyl secondary amine 2;

2 2 3 methyl vinyl chloride cyclopropane-carboxylic acid alpha-cyanogen 3 phenoxy

Benzyl;

2 - chlorine 3 3 3 3-trifluoropropene base 2 methyl cyclopropane-carboxylic acid alpha-cyanogen 3 5

Phenoxy benzyl ester.

To the composition of this invention is to said context specificity in the insect growing regulator is good

for killing

Urea and chlorfluazuron insecticidal fu takashi diflubenzuron fluorine and urea.

The composition of this invention can be the second combining also can be more than three said compound to form the combination of

Material.

The composition of this invention all kinds of components of the action of mechanism is different between them the mutual effect and harmful insect pest

Mite drug resistance of reducing the composition and the insect disinfestations effect is obviously higher than that of each component of the usage time of the insect disinfestations effect

And it can kill insect wider.

The composition of this invention can be used for various crops preventing and curing many diseases and insect pest mite the fruit tree melon and vegetable

Vegetable and forestry set on the top end of the lepidoptera pest has special effect. Such as grapholitha molesta grape small roller this sugar beet noctuid cabbage

Moth prodenia litura pine cabbage caterpillar and cotton bollworm and.

Composition of this invention is insects hydrazide with specific insect growing regulator biological source aibuhitensis toxin and / or

The other kind of pesticide ratio based on active components of weight ratio is 1 1 160-80 the best is 1 to 40

40 1.

The composition of this invention also comprises emulsifier solvent or filling material auxiliary agent the composition of the weight occupies

Weight percentage is 95%.

The composition of this invention can be prepared into solution emulsion wettable powder suspending agent powder dust agent

Paste soluble powder granule micro emulsion spray missible oil smoke agent and slow release agent.

The composition of this invention it needs to add emulsifying agent dispersing agent wetting agent and surface active material so as to increase

Composition the stability of the wetting permeability.

The invention claims the product can be finished product form of the preparation of the product in substance has been mixed. And the combined

Of the component also can be independently the preparation the invention claims the use of the tank is directly mixed.

The composition of this invention can also comprises other active component such as and it has the advantages of weeding and disinsection and sterilization and

The performance of the compound also can be connected with the killing eelworm agent protective agent of growth regulator plant nutrient or soil conditioner

Regulator mixing.

The composition of this invention can be counted according to the common method of using such as casting ejection spray powder or the cigarette.

Composition of this invention can be used in the embodiment of invention:

Embodiment 1 20% suspending agent prepared

Insect hydrazide 10 wt%

Diflubenzuron 10 wt%

Auxiliary agent 11% weight

Filling material the weight is 27%

42% by weight water

Each component are mixed together in sander sand mill grinding to the effective constituent of the grain diameter is less than 3m.

Embodiment it can be wettable powder preparation

Insect hydrazide weight of 17%-

Chlorfluazuron 3% weight

Auxiliary agent with weight

Filling 71% weight

Each material in turn adding in the reaction kettle under stirring condition to make it fully mixed and crushed into certain

The fineness of the.

Embodiment 3 granule prepared

Insect hydrazide 15% weight

Diflubenzuron 15% weight

Bentonite 29% weight

Talcum 40 weight

20% by weight ammonium sulphate

Each material in turn adding in the reaction kettle under stirring condition to make it fully mixing and kneading solution

And drying granulation and crushing.

Embodiment 4 20% insect killing or suspending agent and sugar beet noctuid of preventing and curing effect

Place: Shanghai

Embodiment of 5 to 20% and dimehypo polyamide powder to cotton bollworm for preventing and curing effect

Place: Binzhou

Embodiment 6 18% insect killing or suspending agent the apple leaf roll of diamond back moth of preventing and curing effect

Place; Northwest agriculture and industry university

Embodiment of the insect pests 7 20% or wettability powder agent on the twill noctuid of preventing and curing effect

Place: Laiyang

Embodiment of the insect pests 8 15% or wettability powder agent on the apple leaf roll of diamond back moth of preventing and curing effect

Test site: Yantai

Embodiment of this ring 9 15% and insect pests or suspending agent the apple leaf roll of diamond back moth of preventing and curing effect

Test site: Yantai

Embodiment of 10 to 20% insect pests in or cream to the sugar beet noctuid of preventing and curing effect

Test site: Shanghai

Embodiment 11 22% and acyl chlorfenapyr granule to dark green insect prevention and cure effect  
Test site: Zibo

Embodiment of an insect pests fu 12 15% soluble powder for grape small roller for preventing and curing effect of diamond back moth

Test site: Zibo

Embodiment 13 of insect pest eliminating acid soluble powder and pine insect prevention and cure effect

Test site: Liaoning

Embodiment 14 of insect pest eliminating or suspending agent of grapholitha molesta for preventing and curing effect

Test site: Laiyang

Embodiment of 15 to 25% of insect pest eliminating or wettability powder agent to grape small roller for preventing and curing effect of diamond back moth

Test site: Zibo

Example 16 15.2% insect or methyl amidocyanogen avermectin and suspending agent the diamond back moth of preventing and curing effect

Test site: Binzhou

Embodiment of this ring 17 21% insect pests or water dispersible granule the sugar beet noctuid of preventing and curing effect

Test site: Shanghai

Embodiment of this ring 18 21% insect pests or suspension agent on the twill noctuid of preventing and curing effect

Test site: Northwest agriculture and industry university

Embodiment of this ring 19 21% insect pests or suspending agent the grape small roller for preventing and curing effect of diamond back moth

Test site: Zibo

## Claims

- 1. this utility model claims an insecticidal composition comprising at least one specific insect growing regulator biological source aibuhitensis toxin and / or other kind of pesticide and the following i structure of 1 1 1 -dimethyl- 1 4 ethyl ethylene phenyl benzoyl 3 5 -dimethyl benzoyl hydrazine to insect hydrazide.
- 2. According to claim 1 the composition of the specific insect growth regulator is 1 wherein said benzoyl chloride 3 4- diphenyl urea 2' benzoyl 1' special butyl benzoyl hydrazine 1 3 5 - dichloro - 3 5 chloride trichloromethyl 2-pyridine oxy phenyl] 2 6 3 and 1-bi-fluoride benzoyl urea 1-2 - 2 - chlorine benzoyl 3 4- trifluorine methoxy phenyl n chloride urea 3 5-bis 2 4 second fluorine phenyl n is 2 6-bi fluorine benzoyl urea 1 3 5 - dichloro - 1 2 polytetrafluoroethylene oxy phenyl] 2 6 3 and 1-bi-fluoride benzoyl chloride urea 1 4 - phenyl - 2 6 3 and 1-bi-fluoride benzoyl urea 1- 4- chlorine alpha alpha cyclopropyl ya benzyl an oxygen toluene base 3 - 2 6 difluorobenzene benzoyl urea use of 2' 5 methyl tert-butyl 2' 3 5 -dimethyl benzoyl colour 6 and a hydrazide 1 4 - 2 - chlorine alpha alpha alpha tri-fluoride methyl phenoxyl -2- the fluorine phenyl - 2 6 3 -bi-fluoride benzoyl urea n or tertiary butyl 3-methyl 2# a benzoyl 3 5 -dimethyl benzoyl hydrazine.

- 3. According to claim 1 2 any one claim a composition of the biologic source insect killer is agritol avermectin 4 said methyl amino 4 said deoxidizing avermectin benzoate b.
- 4. according to said any one rights for the demand of the composition the aibuhitensis toxin type insecticide is 2 n n-dimethyl amino 1 sodium thiosulfate 3- thiosulfate propyl alkyl 2 n n-dimethyl amino 1 3 -dual thio propane sulfonic acid sodium.
- 5. according to said any one rights for the demand of the composition of the other kind of pesticide is 2 4 4 bromine chlorine 1 phenyl ethoxy methyl 5-trifluorobenzene methyl pyridine 3 nitrile 1 6 chloride 3 4-pyridylmethyl - n nitryl imidazole alkyl secondary amine 2 2 3 2 methyl vinyl chloride cyclopropane-carboxylic acid alpha-cyanogen 3 phenoxy benzyl chloride 2 3 3 3 3-trifluoropropene base 2 methyl cyclopropane-carboxylic acid alpha-cyanogen 3 phenoxy benzyl ester.
- 6. according to said any one rights for the demand of the composition and its structure in formula i and specificity insect growing regulator biological source aibuhitensis toxin and / or other type insecticide ratio based on active components by weight of 1 to 80 to 160 the best proportion of 1 1 1 to 40 40.
- 7. according to claim 1 said composition of the active component is also comprises other emulsifier solvent or filling material auxiliary agent.
- 8. according to claim 1 said composition of the active component is further contains surface active agent.
- 9. according to claim 1 wherein said composition use of insecticide and acaricide.
- 10. according to claim 1 the said combination can be made into solution can be wettable powder suspending agent powder soluble powder granule missible oil microcapsule or slow release agent.

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